# PATENT COOPERATION TREAT

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 22 May 2000 (22.05.00)	in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/SE99/01893	98 P 2024 P
International filing date (day/month/year) 21 October 1999 (21.10.99)	Priority date (day/month/year) 27 October 1998 (27.10.98)
Applicant	
BRAND, Paul et al	
1. The designated Office is hereby notified of its election made.    X   In the demand filed with the International Preliminary   23 March 2000	y Examining Authority on:  (23.03.00)  Inational Bureau on:  date or, where Rule 32 applies, within the time limit under
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer F. Baechler
Faccipallo No + (41, 22) 740 14 35	Telephone No : (41-22) 338 83 38

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# P ENT COOPERATION TREA

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)	WATZ, Per-Erik St. Jude Medical AB Patent Department S-175 84 Järfälla SUÈDE
Date of mailing (day/month/year) 19 December 2000 (19.12.00)	
Applicant's or agent's file reference 98 P 2024 P	IMPORTANT NOTIFICATION
International application No. PCT/SE99/01893	International filing date (day/month/year) 21 October 1999 (21.10.99)
The following indications appeared on record concerning:     the applicant	
Name and Address PACESETTER AB	State of Nationality State of Residence
Patent Dept. S-175 84 Järfälla Sweden	Telephone No. 46 8 474 40 72
	Facsimile No.
	Teleprinter No.
The International Bureau hereby notifies the applicant that the the person       X the name       X the add	
Name and Address WATZ, Per-Erik	State of Nationality State of Residence
St. Jude Medical AB Patent Department S-175 84 Järfälla	Telephone No. +46-8-474- 45 71
Sweden	Facsimile No. +46-8-761 29 05
	Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:	-
X the receiving Office	the designated Offices concerned
the International Searching Authority the International Preliminary Examining Authority	X the elected Offices concerned other:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  J. Leitao
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38



# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	ent's file reference	FOR FURTHER ACTION		ification of Transmittal of International	
98 P 202	4 P		FOR FURTHER ACTION	Prelimina	ary Examination Report (Form PCT/IPEA/416)	
Internationa	al appl	ication No.	International filing date (day/mor	nth/year)	Priority date (day/month/year)	
PCT/SES	9/01	893	21/10/1999		27/10/1998	
Internationa A61N1/3		ent Classification (IPC) or na	tional classification and IPC			
		•				
Applicant						
PACESE	TTE	R AB et al				
1. This i and is	ntern s trans	ational preliminary exam smitted to the applicant a	ination report has been prepar according to Article 36.	ed by this Ir	nternational Preliminary Examining Author	rity
2. This I	REPO	ORT consists of a total of	5 sheets, including this cover	sheet.		
b (:	een a see R	mended and are the bas	sis for this report and/or sheets 07 of the Administrative Instruc	containing	tion, claims and/or drawings which have rectifications made before this Authority r the PCT).	
3. This i	report ⊠	contains indications rela	ating to the following items:			
II					A Company of the comp	
III	_		ppinion with regard to novelty, i	nventive ste	ep and industrial applicability	
V	∐ ⊠	Reasoned statement u		o novelty, in	nventive step or industrial applicability;	
VI						
VII		Certain defects in the in	nternational application			
VIII	⊠	Certain observations o	n the international application			
Date of sub	missio	on of the demand	Date	of completion	of this report	
23/03/20	00				1 1. 10.00	
		g address of the internationa	al Autho	rized officer	Joseph SONES May	ievie
preliminary	Euro D-80	ining authority: opean Patent Office 0298 Munich	Held	, <b>G</b>	· · · · · · · · · · · · · · · · · · ·	)
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SE99/01893

## I. Basis of the report

1.	resp	oonse to an invitati	lrawn on the basis of (substitute sheets which have been furnished to the receiving Office i on under Article 14 are referred to in this report as "originally filed" and are not annexed to lo not contain amendments.):
	Des	scription, pages:	
	1-13	2	as published
	Cla	ims, No.:	
	1-9		as published
	Dra	wings, sheets:	
	1/2-	-2/2	as published
2.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3.		This report has be considered to go	een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SE99/01893

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)

Yes:

Claims 1 - 9

No:

Claims

Inventive step (IS)

Yes: Claims 1 - 9

Industrial applicability (IA)

No: Claims

Yes:

Claims 1-9

No: Claims

2. Citations and explanations

see separate sheet

## VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet





#### Re Item V 1.

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

**EXAMINATION REPORT - SEPARATE SHEET** 

D1: US-A-4 934 366

The document D1 is regarded as being the closest prior art to the subject-matter of independent claim 1, and discloses (the references in parentheses applying to this document):

A pacer housing comprising a connector means adapted to receive a contact plug, said connector means comprising a tubular member located inside said housing (Fig 6A).

The differentiating feature of the subject-matter of independent claim 1 in comparison with document D1 is that all means for contacting the contact surfaces being located within a tube and that said tube further contains an insulating plug which holds said means for contacting.

The advantages are that the connective part is simple to manufacture and to mount in the pacer housing while providing a high strength and a high durability of the connective part.

The available prior art documents do not show such specific connector part nor give any hint to manufacture a pacer housing comprising the features defined in the characterizing part of claim 1. Thus, the subject-matter of independent claim 1 fulfills the requirements of Article 33(2) - (4) PCT.

1.2 Claims 2 - 9 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

#### Re Item VIII 2.

Certain observations on the international application



# INTERNATIONAL PRELIMINARY Internation REPORT - SEPARATE SHEET

- 2.1 According to Article 5 PCT, all essential features should be incorporated in the description and should be understood without reference to any other document. Thus, the expressions on page 2, line 13, page 6, line 34 and page 7, line 23 concerning the incorporation by reference should have been deleted.
- 2.2 According to the requirements of Rule 11.13(I) reference signs not appearing in the description/claims shall not appear in the drawings, and vice versa. This requirement is not met in view of the reference sign "111" mentioned in claims 1 and 6 and page 7, line 33.



S-175 84 Järfälla (SE).

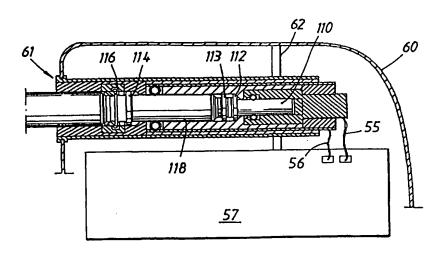
# WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(11) International Publication Number: WO 00/2440
A61N 1/375	A1	(43) International Publication Date: 4 May 2000 (04.05.0
(21) International Application Number: PCT/SI (22) International Filing Date: 21 October 1999	E99/018 (21.10.9	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, I
(30) Priority Data: 9803693-2 27 October 1998 (27.10.98  (71) Applicant (for all designated States except US): PAC AB [SE/SE]; S-175 84 Järfälla (SE).		Published  With international search report.  Before the expiration of the time limit for amending claims and to be republished in the event of the receipt amendments.
(72) Inventors; and (75) Inventors/Applicants (for US only): BRAND, Pau Travarvägen 31, S-175 39 Järfälla (SE). H [SE/SE]; Gösvägen 8, S-175 55 Järfälla (SE).	l (SE/S ILL, R	B]; olf
(74) Common Representative: PACESETTER AB; Pa	tent De	pt.,

(54) Title: A HOUSING, WITH A TUBULAR CONNECTOR, FOR A HEART STIMULATOR



### (57) Abstract

The present invention relates to a pacer housing (60) comprising a connector means adapted to receive a contact plug (110) on the proximal end of a lead (15) with an electrode located on the distal end of said lead, said housing being made of metal, said connector means comprising a tubular member having two ends and being located inside said housing, a first end (22, 122) of said tubular member being welded or bonded to an opening in a wall of said housing, the second end (23, 123) of said tubular member being closed. Said tubular member comprises a tube (21, 121) made of a metal being weldable or bondable to said metal housing, said tube being structurally intact along its entire length, all interior means (27, 127, 28, 128, 50, 150, 51, 151) in said tube for contacting the contact surfaces (111, 118) on said plug being located within the enclosure formed by said tube, said tube further containing at least one insulating ceramic plug (26, 126) being coaxial with said tube and holding said interior means for contacting said contact surfaces on said plug.

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Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/01893

A. CLASS	IFICATION OF SUBJECT MATTER		
IPC7: A	61N 1/375 International Patent Classification (IPC) or to both national	onal classification and IPC	
	S SEARCHED		
Minimum do	cumentation searched (classification system followed by c	lassification symbols)	· · · · · · · · · · · · · · · · · · ·
IPC7: A	61N on searched other than minimum documentation to the e	ytont that such documents are included in	the fields searched
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	I, NO classes as above ta base consulted during the international search (name o	Cdata base and, where practicable, search	terms used)
Electronic da	the base consulted during the international scale (million)		
WPI, ED	oc		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.
A	US 4934366 A (B.E. TRUEX ET AL), (19.06.90), figures 4,6, abst	19 June 1990 ract	1-7
		14 11 1091	1-7
A	US 4278093 A (R. LAFORTUNE ET AL) (14.07.81), figure 1, abstrac	), 14 July 1981 ct	• ,
A	US 5545188 A (J.I. BRADSHAW ET AL	L), 13 August 1996	1-7
^	(13.08.96), figure 1, abstrac	ct	
A	EP 0261582 A1 (SIEMENS ELEMA AB) (30.03.88), figure 1, abstra	, 30 March 1988 ct	1-7
Furth	ler documents are listed in the continuation of Box	C. See patent family anne	х.
"A" docum	I categories of cited documents: ent defining the general state of the art which is not considered	"I" later document published after the in date and not in conflict with the appl the principle or theory underlying the	invention
"E" erlier o	of particular relevance document hut published on or after the international filing date tent which may throw doubts on priority claim(s) or which is	"X" document of particular relevance: the considered novel or cannot be considered novel or cannot be considered when the document is taken along	ered to involve an inventive
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	ne actual completion of the international search	Date of mailing of the international	search report
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16 Feb	oruary 2000 d mailing address of the ISA	Authorized officer	
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# INTERNATIONAL SEARCH REPORT Information on patent family members

02/12/99 PCT/SE 99/01893

International application No.

Patent document cited in search report	l,	ublication date		Patent family member(s)		Publication date
US 4934366	A 1:	9/06/90	AU DE EP JP WO AU AU DE EP SE JP		A D, T A, B T B A D, T A, B T3	02/07/92 18/04/91 21/11/96 02/10/91 04/06/92 24/09/93 04/04/91 06/06/91 02/04/90 23/11/95 02/01/91 20/06/91 22/03/90
US 4278093	A 1	4/07/81	NON	 E 		
US 5545188	A 1	3/08/96	NON	E		
EP 0261582	A1 3	0/03/88	DE US	3783110 4913147		28/01/93 03/04/90